COD BY CLOSED REFLUX, COLORIMETRIC METHOD
SM 5220 D 20th

Facility Name:_____VELAP ID_____

Assessor Name:_____Analyst Name:_____Inspection Date_____

Relevant Aspect of Standards	Method Reference	Y	N	N/A	Comments
Records Examined: SOP Number/ Revision/ Date _____ Analyst:_____ Sample ID: _____ Date of Sample Preparation:_____ Date of Analysis:_____					
Were digestion vessels of optical quality?	2.a				
Was $K_2CR_2O_7$ used in digestion solution dried for 2hours at 150°C?	3.a				
Was digestion solution used at high range made at rates of 10.216 g $K_2CR_2O_7$ and 167 mL H_2SO_4 and 33.3 g $HgSO_4$ in 1000mL distilled water?	3.a				
Was digestion solution used at low range made at rates of 1.022 g $K_2CR_2O_7$ and 167 mL H_2SO_4 and 33.3 g $HgSO_4$ in 1000mL distilled water?	3.a				
Was sulfuric acid reagent made at a rate of 5.5 g Ag_2SO_4 in 1 **kg** H_2SO_4?	3.c				
Were the potassium hydrogen phthalate (KHP) standards made by first crushing and drying $HOOCC_6H_4COOK$ to a constant weight at 110°C then dissolving it in distilled water at a rate of 425 mg $HOOCC_6H_4COOK$ per 1000 mL water?	3.e				
Was any suspended matter allowed to settle out of reaction vessels prior to measurement?	4.a				
If measured at 600 nm were reagent solution blanks subtracted from measured sample values?	4.b				
If measured at 420 nm were reagent water blanks subtracted from measured sample values?	4.b				
Notes/Comments:					

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Were at least five standards made from potassium hydrogen phthalate (KHP) solution and subjected to the same digestion as samples used for calibration?	4.c				
Were new calibrations prepared for each new lot of tubes/ampules or when digestion solutions differed by ≥5% from the calibration curve	4.c				
Were calculations done properly to yield results in mg O_2/L?	5				

Notes/Comments: